

Development control systems takeover: Subject robotic arm on the example anthropomorphic robot AR-601

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Abstract

It is proposed the formation software architecture of complex motion for robotic systems in the form of sets of behavior - patterns - similar to the motor reflexes of living organisms. To form patterns of behavior of the robot the authors used a methodology of structural analysis of complex systems IDEF0, then developed types of elementary algorithms (patterns) that make up the dynamics of the anthropomorphic robot jump. The work is performed according to the Russian Government Program of Competitive Growth of Kazan Federal University.

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